

FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE
(REV. 7-2005)

**TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A SUBMISSION UNDER 35 U.S.C. 371**

ATTORNEY'S DOCKET NUMBER

08321-0148US1

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

Not yet assigned **10/562415**

INTERNATIONAL APPLICATION NO.

PCT/US2004/020464

INTERNATIONAL FILING DATE

25 June 2004 (25.06.2004)

PRIORITY DATE CLAIMED

27 June 2003 (27.06.2003)

TITLE OF INVENTION

METHODS FOR DETECTING NUCLEIC ACID VARIATIONS

APPLICANT(S) FOR DO/EO/US

DELGROSSO, Kathleen; FORTINA, Paolo; GRAVES, David J.; SURREY, Saul

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below.
4. ☒ The US has been elected (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c)(2))
 - a. ☐ is attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ has been communicated by the International Bureau.
 - c. ☒ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☐ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
 - a. ☐ is attached hereto.
 - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4).
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are attached hereto (required only if not communicated by the International Bureau).
 - b. ☐ have been communicated by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
10. ☐ An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☒ A copy of the International Search Report (PCT/ISA/210).

Items 13 to 23 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☒ A **FIRST** preliminary amendment.
16. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
17. ☐ A substitute specification.
18. ☐ A power of attorney and/or change of address letter.
19. ☒ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.
20. ☐ A second copy of the published International Application under 35 U.S.C. 154(d)(4).
21. ☐ A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4).
22. ☒ Express Mail Label No. **EV 545927133 US**

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

U.S. APPLICATION NO (if known, see 37 CFR 1.5) Not yet assigned 107362415	INTERNATIONAL APPLICATION NO. PCT/US2004/020464	ATTORNEY'S DOCKET NUMBER 08321-0148US1				
23. Other items or information: Courtesy copy of International Publication Number WO 2005/001113 A2 Statement Pursuant to 37 CFR 1.821 - 1.825 Application Data Sheet; Check for fee (# 1078225) Return receipt post card						
The following fees have been submitted: 24. <input checked="" type="checkbox"/> Basic national fee \$300		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">CALCULATIONS</th> <th style="width: 50%;">PTO USE</th> </tr> <tr> <td style="text-align: right;">\$ 300.00</td> <td></td> </tr> </table>	CALCULATIONS	PTO USE	\$ 300.00	
CALCULATIONS	PTO USE					
\$ 300.00						
25. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article \$0 All other situations. \$200		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">\$ 200.00</td> <td></td> </tr> </table>	\$ 200.00			
\$ 200.00						
26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . . \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. \$100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. \$400 All other situations. \$500		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">\$ 100.00</td> <td></td> </tr> </table>	\$ 100.00			
\$ 100.00						
TOTAL OF 24, 25 and 26 =		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">\$ 600.00</td> <td></td> </tr> </table>	\$ 600.00			
\$ 600.00						
<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(i)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.						
Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof (round up to a whole)	RATE			
- 100 =	0 /50 =	0	x \$250.00	\$ 0.00		
Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).				\$		
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE			
Total claims	42 - 20 =	22	x \$50.00	\$ 1,100.00		
Independent claims	3 - 3 =	0	x \$200.00	\$ 0.00		
MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> + \$360.00				\$ 0.00		
TOTAL OF ABOVE CALCULATIONS =				\$ 1,700.00		
<input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2.				\$ 850.00		
SUBTOTAL =				\$ 850.00		
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).				\$ 0.00		
TOTAL NATIONAL FEE =				\$ 850.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property +				\$ 0.00		
TOTAL FEES ENCLOSED =				\$ 850.00		
				Amount to be	\$	
				Amount to be	\$	

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

- a. ☒ A check in the amount of \$ \$850.00 to cover the above fees is enclosed.
- b. ☐ Please charge my Deposit Account No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-0573. A duplicate copy of this sheet is enclosed.
- d. ☐ Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

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DRINKER BIDDLE & REATH LLP
 One Logan Square
 18th and Cherry Streets
 Philadelphia, PA 19103-6996
 PHONE: 215 988 3312 FAX: 215 988 2757

Customer No. 23973

Daniel A. Monaco

SIGNATURE

DANIEL A. MONACO

NAME

30,480

REGISTRATION NUMBER

23 December 2005

DATE

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)

Applicant(s) : **DELGROSSO, Kathleen
FORTINA, Paolo
GRAVES, David J.
SURREY, Saul**

Docket No. : **08321-0148US1**

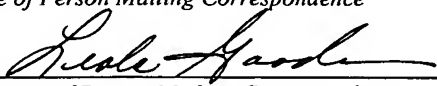
International application No. : **PCT/US2004/020464**
International filing date : **25 June 2004 (25.06.2004)**
U.S. Serial No. : **Not yet assigned**
Filed : **--**
Examiner : **N/A**
Customer Number : **23973**
Group Art Unit : **N/A**
Invention : **METHODS FOR DETECTING NUCLEIC ACID
VARIATIONS**

I hereby certify that the following correspondence:

**Form PTO-1390 (Modified) – TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35
U.S.C. 371; Preliminary Amendment; Information Disclosure Statement with Form PTO-1449
(in duplicate); Application Data Sheet; Statement Pursuant to 37 CFR 1.821 – 1.825; A
computer-readable form of the sequence listing (3.5" diskette); International Search Report;
Written Opinion of the International Searching Authority; Courtesy Copy of International
Publication Number WO 2005/001113 A2; Check for fee (# 1078225); Return receipt postcard**

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to:

Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on
23 DECEMBER 2005.

Leola P. Goodman
Name of Person Mailing Correspondence

Signature of Person Mailing Correspondence

EV 545927133 US
("Express Mail" Mailing Label Number)